

## Course Introduction

Cloud computing is the uprising technology trends that everyone is talking about. It provides the capabilities for an organization to shares and use computing resources in the most efficient way. On the downsides, it also introduces some new attack surfaces comparing to the traditional computing. We need to make sure that all securities issues are addressed and controlled.

Like other technologies, the full potential of the cloud computing cannot be achieved without understandings of the threats, vulnerabilities, and impact of these threats to the cloud services. This course provides insights into these areas and describes methods of achieving the maximum benefits from a cloud computing with minimal risk.

## Course Objectives

- Understand the cloud-computing concepts, architecture and technologies
- Understand cloud delivery and deployment
- Understand cloud risks and security requirements
- Understand virtualization security management
- Learn how to make use of the international standards for cloud services
- Understand cloud life-cycle issues

## Course Highlights

- Free membership for ACIS Alumni
  - Access to the latest information related to the course subjects
  - A life-time class re-sit

## Learning Level

- Foundation

## Course Duration

- 2 Days (12 Hours)

## Prerequisites

- None

## Target Groups

- IT manager, IT Security Officer, System Engineer, IT auditor
- Or any interested individual or party

## Course Outline

### Module 1 Cloud Computing Fundamentals

Defines cloud computing and provides alternative views of its application and significance in the general world of computing. Following this introduction, the chapter presents the essential characteristics of cloud computing and traces the historical architectural, technical, and operational influences that converged to establish what is understood as cloud computing today.

### Module 2 Cloud Computing Architecture

Looks at the primary elements of the cloud computing architecture using various cloud-based computing architecture models. In this chapter we'll examine cloud delivery models (the SaaS, PaaS, and IaaS elements of the SPI framework), cloud deployment models (such as private, community, public, and hybrid clouds), and look at some alternative cloud architecture models, such as the Jericho Cloud Cube.

### Module 3 Cloud Computing Software Security Fundamentals

Explores the fundamental concepts of cloud computing software security, covering cloud security services, cloud security principles, secure software requirements, and testing concepts. It concludes by addressing cloud business continuity planning, disaster recovery, redundancy, and secure remote access

### Module 4 Cloud Computing Risk Issues

Examines cloud computing risks and threats in more detail. We'll examine cloud computing risk to privacy assurance and compliance regulations, how cloud computing presents a unique risk to "traditional" concepts of data, identity, and access management (IAM) risks, and how those risks and threats may be unique to cloud service providers (CSPs).

### Module 5 Cloud Computing Security Challenges

Helps identify management challenges and opportunities. Security management must be able to determine what detective and preventative controls exist to clearly define the security posture of the organization, especially as it relates to the virtualization perimeter. We'll look at security policy and computer intrusion detection and response implementation techniques, and dive deeply into virtualization security management issues.

### Module 6 Cloud Computing Security Architecture

Addresses the important cloud computing security architectural issues, including trusted cloud computing, secure execution environments, and micro - architectures. It also expands on the critical cloud security principles of identity management and access control and develops the concepts of autonomic systems and autonomic protection mechanisms.

### Module 7 Cloud Computing Life Cycle Issues

Presents cloud life cycle issues, together with significant standards efforts, incident response approaches, encryption topics, and considerations involving retirement of cloud virtual machines and applications.

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